

Product datasheet for PH326606

PKR (EIF2AK2) (NM_001135651) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	EIF2AK2 MS Standard C13 and N15-labeled recombinant protein (NP_001129123)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC226606
Predicted MW:	62.1 kDa
Protein Sequence:	>RC226606 protein sequence Red=Cloning site Green=Tags(s)

MAGDLSAGFFMEELNTYRQKQGVLKYQELPNSGPPHRRFTFQVIIDGREFPEGEGRSKKEAKNAAKL
AVEILNKEKAVSPLLLLTTTNSSEGLSMGNYIGLINRIAQKKRLTVNYEQCASGVHGPGEFHYKCKMGQK
EYSIGTGSTKQEAQLAAKLAYLQILSEETSVKSDYLSGSFATTCESQSNLVTSTLASESSSEGDFSA
DTSEINSNSDSLSSLLMNGLRNNQRKAKRSLAPRFDLPDMKETKYTVDKRFGMDFKEIELIGSGFGQ
VFKAKHRIDGKTYVIKRVKYNNEKAEREVKALAKLDHVNIHVHNGCWDGFDYDPETSDSLESDDYPEN
SKNSSRSKTKCLFIQMEFCDKGTLEQWIEKRRGEKLDKVLALFEQITKGVVDYIHSKLIHRDLKPSNI
FLVDTKQVKIGDFGLVTSKNDGKRTRSKGTLRYMSPEQISSQDYGKEVDLYALGLILAELLHVCDTAFE
TSKFFTDLRDGIISDIFDKKEKTLQKLLSKKPEDRPNTSEILRTLTVWKKSPKNERHTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001129123</u>
RefSeq Size:	4127
RefSeq ORF:	1653



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Synonyms: EIF2AK1; LEUDEN; PKR; PPP1R83; PRKR

Locus ID: 5610

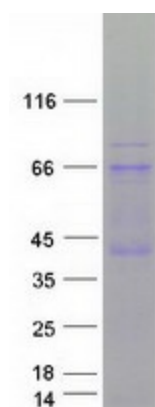
UniProt ID: [P19525](#), [Q8IW76](#)

Cytogenetics: 2p22.2

Summary: The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

Product images:



Coomassie blue staining of purified EIF2AK2 protein (Cat# [TP326606]). The protein was produced from HEK293T cells transfected with EIF2AK2 cDNA clone (Cat# [RC226606]) using MegaTran 2.0 (Cat# [TT210002]).